

Dianne R. Nielson, Ph.D.

Division Director

State of Utah DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203 801-538-5340

November 13, 1989

MINGHIC RECHARGON

TO:

Board of Oil, Gas and Mining

THRU:

Lowell P. Braxton, Associate Director, Mining 105

FROM:

D. Wayne Hedberg, Permit Supervisor/Hydrologist DWK

RE:

Request for Board Concurrence, Amount and Form of Reclamation Surety,

Utelite Mine, Utelite Corporation, M/043/004, Summit County, Utah

The Division seeks the Board's concurrence on the amount and form of reclamation surety to be provided by Utelite Corporation (Utelite) for continued operations at the Utelite Mine located in Summit County, Utah. Attached for your reference, is a copy of the executive summary, a location map, the reclamation surety estimate, the self bonding qualification sheet, and the form of reclamation surety (Self Bonding and Indemnity Agreement).

On January 15, 1988, the Division issued tentative approval for this existing operation. Since that time, the operator has submitted a 19-acre amendment to expand the extent of the mining operation. A revised reclamation surety estimate of \$101,800 (in 1994 dollars) has been calculated by the Division to reclaim portions of this minesite. The revised reclamation surety includes the projected reclamation costs (\$28,600) for the 19-acre East Pit expansion.

The operator has proposed that the majority of the pit disturbances associated with this operation be made part of the adjacent Summit County landfill upon cessation of mining operations. The Division has calculated a reclamation surety based upon a worst-case scenario (i.e., no landfill), because a firm commitment from Summit County could not be obtained at this time. When, and if, it becomes apparent that the county will use Utelite's pits as part of their landfill, then the operator can request a proportionate surety reduction from the Division.

Thank you for your time and consideration of this formal request for acceptance of the amount and form of reclamation surety.

DWH/jb Attachments MN2/67

DOGM MINERALS PROGRAM

CHECK LIST FOR BOARD APPROVAL OF FORM AND AMOUNT OF SURETY

Mine	Name_	Utelite	
File	No	M/043/004	

	Prov	ided	
Item	Yes	No	Remarks
Executive Summary	Х		
Location Map	Х		
Reclamation Bond Estimate	Х		
Signed Reclamation Contract		Х	Blank form attached pending operator's signature.
Signed Power of Attorney/ Affidavit of Qualification		Х	N/A
Bond/Reclamation Surety	х	,	Draft copy, Self Bonding and Indemnity Agreement.
Surety Signoff (Other State/Federal Agencies)		Х	N/A
9			

MN88/9

EXECUTIVE SUMMARY

Operator:	Utelite Mine Utelite Corporation P. O. Box 387 Coalville, Utah 84017	County: New/Existing: Mineral Ownership:	Summit Existing BLM, Utelite, et al
Contact Pers	801-359-8541 on: Carsten Mortensen : 30-50 years	Lease No.(s): Permit Term:	
Legal Descri	ption: <u>TIS, R5E, Sections</u>	5 and 8	
Mineral(s) t rock aggrega	o be Mined: "Manchos" sha te product).	le (processed into e	xpanded lightweight
Mining Metho	ds: Open pit using dozers	with rippers and who	eel loaders.
Acres to be	Disturbed: Total disturba	nce 74.5 acres.	
Present Land	Use: Mining, landfill.		
Postmining L	and Use: Landfill, grazing	J.	
Variances fr M-10(5) High	om Reclamation Standards (I	Rule M-10) Granted:	M-10(1) Landuse;
		,	
SOILS an	d GEOLOGY:		
Soil Descrip and subsoil	tion: Relatively thin rock	<u>(y topsoil. @150,000</u>	Cubic yards topsoil
pH: _6.6 to	8.0		
Special Hand	ling Problems: None		
Geology Desc with a dip r	ription: <u>This 200 foot "Ma</u> anging from 40 to 65 degree	unchos" shale deposit	t strikes southwest
HYDROLOG	Y:		
Groundwater a minor amou time to time	Description: <u>The "Manchos" nt of groundwater does seep</u> . This does not create any	into the pit from t	the footwall from

Surface Water Description: Three Mile Creek traverses the property. The small creek is immediately adjacent to the operations and drains toward Rockport

Water Monitoring Plan: None required.

Reservoir.

Page 2 Executive Summary Utelite Mine M/043/004

ECOLOGY:

Vegetation Type(s); Dominant Species: Indian Rice Grass, Sagebrush and Oak.	Bluebunch wheatgrass, Smooth Brome Grass
Percent Surrounding Vegetative Cover:	@30%
Wildlife Concerns: None	
Surface Facilities: Office, warehouse/covered processed ore storage building	maintenance buildings, processing plant, , raw ore stockpiles, etc.
Mining and Reclamation Plan Summary:	
During Operations:	

Shale will be mined with a dozer and conveyed to the kilns where it is processed into rock aggregate. Stripped overburden will be recontoured and seeded with native vegetative species. The stream channel on site will be riprapped and seeded as necessary to control erosion.

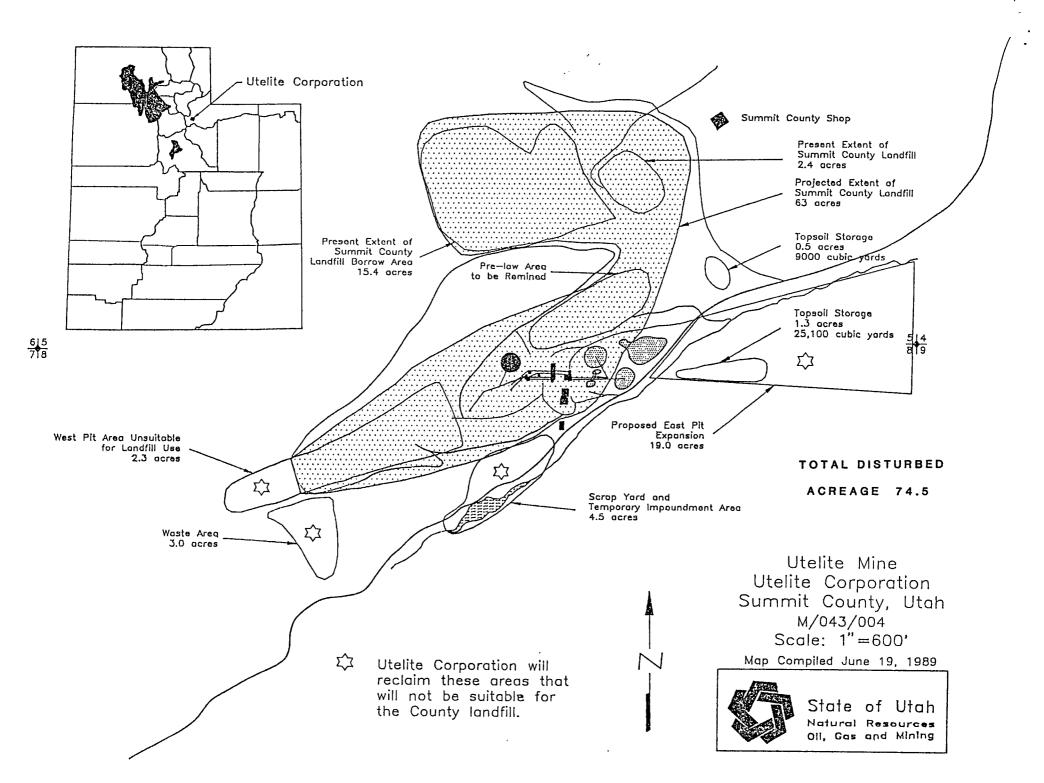
Following Operations:

The pit, access road, and usable buildings are proposed for use as a Summit County landfill when the site is completely mined out. Unusable plant facilities will be removed or buried on site. The fill material will be layed back out of the stream channel, recontoured and the adjacent road moved further up slope. All areas not used for the landfill will be ripped and seeded.

SURETY:

Amount: \$101,800 (1994 dollars)
Form: Self Bond
Renewable Term: 5 year

MN13/35-36



Wayne



State of Utah department of natural resources division of oil, gas and mining

Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

Governor
355 West North
3 Triad Center,
5 Salt Lake City,
601-538-5340

355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203 801-538-5340

October 25, 1989

TO:

Lowell P. Braxton, Associate Director, Mining

FROM:

D. Wayne Hedberg, Permit Supervisor/Hydrologist DWH

RE:

Reclamation Bond Estimate, Utelite Corporation, Utelite Mine, M/043/004,

Summit, Utah

This memorandum is prepared pursuant to your instructions of October 18, 1989, in which you requested that I review the Utelite file and prepare a revised reclamation surety estimate for the Utelite Mine. I have attached a revised surety estimate based upon my review of the correspondence files, maps, and previous surety estimates for this operation.

This estimate is prepared assuming a "worst case" non-landfill scenario. It is my understanding that we are prepared to accept the landfill as a reasonable postmining landuse. However, because we have no firm commitment from Summit County that they will utilize Utelite's mined-out pits as part of the county landfill, we will bond for a non-landfill provision. When, and if, it becomes apparent that the county will use Utelite's pits as part of their landfill, then the operator can request a proportionate bond reduction from the Division.

I have used both reclamation surety estimates, as previously prepared by Frank Filas and Scott Johnson, to prepare the latest reclamation estimate. Frank's August 17, 1987, \$73,200 (1994 dollars) reclamation estimate was prepared assuming a non-landfill postmining landuse. Scott Johnson's June 20, 1989, \$34,000 (1994 dollars) estimate was prepared assuming acceptance of the county landfill postmining landuse. Scott's reclamation estimate includes a new (19 acre) East Pit expansion, while Frank's does not. The East Pit reclamation in 1994 dollars equals \$28,600. Adding this value to Frank's \$73,200 estimate yields a total of \$101,800 (1994 dollars). This figure should be used as the basis for the self-bonding proposal before the Board of Oil, Gas and Mining.

DWH/jb Attachments cc: Carsten Mortensen Barbara Roberts Dianne Nielson MN2/66

(BONDING SUPPLEMENT)

Reclamation Estimate for UTELITE CORPORATION UTELITE MINE Summit County M/043/004

Prepared by DOGM - October 25, 1989

Description	Quantity ———————————————————————————————————	Unit	\$/Unit	Cost (\$)
East Pit Reclamation (from S. J	Johnson estima	ite)		
Regrade for Uniformity Spread Topsoil Revegetate	19.0 34,100 19.0	Acres Cubic Yards Acres	400 0.35 215	7,600 11,940 4,090
Subtotal			(1989 \$)	23,630
Non-landfill Reclamation (from	F. Filas esti	mate)	(1987 \$)	57,900
Inflated to 1989 Dollars				60,420
Totals Add Contingency (10%)				84,050 8,400
TOTAL RECLAMATION COST (1989 Do	llars)			92,450
TOTAL RECLAMATION COST (1994 Do	llars) @ 1.93	7 Annual Infla	tion	101,800

Summary of The Reclamation Bond Estimate Utelite Mine, M/043/004 (Nonlandfill Scenario)

Item	<u>n</u>	
Α.	Demolition and Cleanup	\$25,500
В.	Soil Placement, Grading and Ripping	25,300
C.	Seeding and Fertilizing	7,100
	•	\$57,900
D.	10 Percent Contingency	5,800
	Total in 1987 Dollars	\$63,700
	Inflation Factor of Two Percent Per Year For Seven Years	
	"Total in 1994 Dollars	\$73,200

Reclamation Bond Estimate Utelite Mine, M/043/004 August 17, 1987

by Frank Filas

General:

This estimate was based on a <u>nonlandfill</u> reclamation scenario. A number of assumptions had to be made in preparing this estimate since the reclamation plan presumes that the mine will eventually be converted to a landfill. These assumptions are detailed in the reclamation estimate. Unit costs for equipment are based on the Blue Book rental rate plus the hourly operating cost. Labor rates are from the Means Site Work Cost Data book and include benefits and subcontractors profit.

A. Demolition and Cleanup

Tear down and remove concrete storage building and shop-office building. This is assuming that this will require two weeks with crew listed below. "This is also assuming that equipment and metal bins are salvageable at no additional cost to the operator.

MANPOWER AND EQUIPMENT			
l Outside Foreman 2 Laborers 1 Equipment Operator 2 Truck Drivers 1 Front End Loader (2.5 CY) 2 Dump Trucks, 16 Ton	\$COST/HR 32.85 23.05 ea 29.85 23.80 ea 61.00 50.60 ea	HRS. 80 80 80 80 80	\$COST 2,628 3,688 2,388 3,808 4,880 8,096
	Subtotal		\$25,488

B. Soil Placement, Grading, and Ripping

1. Haul soil material from waste area to cover pit floor.

Assume: a. Highwalls are granted a revegetation variance.

- b. One foot of soil is placed over a 1600 foot x 200 foot area (11,850 CY).
- c. Use of a 16 CY Scraper on a 2000 foot haul with unfavorable grade and 50 minutes per hour operating efficiency (83 CY/HR - Cat Handbook).

Result: 11,850 CY \div 83 CY/HR = 142.7 HRS

 Regrade and rip disturbed area. Break up and bury foundations, and reroute county road away from stream channel.

Assume:	a.	Disturbed Area	Acres
		20 percent of Waste Dump Pit Floor Plant Site Product Storage Area Stream Channel Area	2.0 7.3 7.3 3.5 4.0
		•	24.1

b. Use of a D-8 with ripper at .5 ACRE/HR

Result: 24 ACRES + .5 ACRE/HR = 48 HRS

MANDOWED AND TOWN			
MANPOWER AND EQUIPMENT	\$COST/HR	HRS.	\$COST
<pre>1 D-8 W/Ripper 3 16 CY Scrapers 4 Equipment Operators 1 Outside Foreman</pre>	134.07 80.19 29.85 32.85	48 48 48 48	6,435 11,547 5,731 1,577
	Subtotal		\$25.290

C. Seeding and Fertilizing

(::)

- Assume: 1. 24 acres to be seeded and fertilized with farm tractor and drill seeder at .75 acre/hr. Assume that 80 percent of waste area has already been revegetated.
 - 20 pounds of seed per acre at \$150/acre and 200 pounds of fertilizer per acre at \$50/acre.

Result: 24 ACRES \div .75 ACRE/HR = 34 HRS Seed and Fertilizer = \$200/ACRE

MANPOWER AND EQUIPMENT	\$COST/HR	HRS.	\$COST
Farm Tractor W/Drill Seeder l Tractor Driver l Laborer Seed and Fertilizer	25.00 23.45 23.05	32 32 32	800 750 738 4,800
	Subtotal		\$7,088

clj 1243R/47-49

Reclamation Estimate for Utelite Corporation Utelite Mine Summit County M/043/004

Prepared By Utah State Division of Oil, Gas and Mining October 24, 1989

Description	Quantit	y Unit	\$/Unit	Cost (\$)
Plant Site Reclamation The scrap value of the plant excellent landfill is expected to cover the	eeds the remova foundations.	al cost. The	Summit C	ounty
Impoundment Reclamation Fill Void with Overburden Revegetate	2000 4.5	Cubic Yards Acres	0.60 215	1,200 970
Subtota1				2,170
Waste Dump Reclamation Revegetate	3.0	Acres	215	650
West Pit Reclamation Regrade for Uniformity Revegetate	2.3 2.3	Acres Acres	400 215	920 490
Subtotal			•	1 /10
East Pit Reclamation Regrade for Uniformity Spread Topsoil Revegetate Subtotal		Acres Cubic Yards Acres	400 0.35 215	7,600 11,940 4,090 23,630
Totals Add Contingency (10%)			=	27,860 2,790
TOTAL RECLAMATION COST (1989 Dollars	;)		-	
TOTAL RECLAMATION COST (1994 Dollars	•	al Inflation		30,650 34,000

Reclamation Estimate for Utelite Corporation Utelite Mine Summit County M/043/004

Prepared By Utah State Division of Oil, Gas and Mining October 24, 1989

Cost Parameters Used

160 165	\$/hour \$/hour	1 2	
24 67 4 6	\$/hour \$/hour mph feet		
Quantity	Unit	\$/Unit	Total Cost (\$)
20	Pounds	9	180
		24 67	12 23
			35
			215
	165 24 67 4 6 Quantity 20 0.5	165 \$/hour 24 \$/hour 67 \$/hour 4 mph 6 feet Quantity Unit 20 Pounds 0.5 Hours	165 \$/hour 24 \$/hour 67 \$/hour 4 mph 6 feet Quantity Unit \$/Unit 20 Pounds 9 0.5 Hours 24

NONCOAL	
(July	1989)

Mine	Utelite Corporation	
Permit	No. <u>M/043/004</u>	
Date	November 13, 1989	
Checked	d By	

SELF BONDING QUALIFICATION SHEET

Applicant required to meet one of the following criteria:

1. Current rating for most recent bond issuance ("A" or higher) (Moody's Investor Service or	
Standard and Poor's Corporation)	N/A

or

2.	Α.	Tangible Net Worth = (at least \$10 Million) (Net worth minus intangibles [Goodwill and rights to patents or royalties])	\$1.030.746.35
	в.	Total Liabilities/Net Worth (2.5 times or less) =	.08
	с.	Current Assets/Current Liabilities (1.2 times or greater) =	9,61
		Reference:	

or

3. A.	Fixed assets in the United States (at least \$20 million) =	\$2,899,782.71
В.	Total Liabilities/Net Worth (2.5 times or less) =	.08
c.	Current Assets/Current Liabilities (1.2 times or greater) =	9.61
	Reference:	

Has the operator been in continuous operation of not less than five (5) years (immediately preceding the time of application) (submitted five annual reports)? YesXNo
Has the operator furnished financial statements prepared by an
independent certified public accountant in conformity with generally
accepted accounting principles?
YesX No
162 <u>V</u> NO
Has the operator furnished unaudited financial statements for
completed quarters in the current fiscal year?
Yes NoX
Has the operator supplied other useful information for determining
financial qualifications?
YesX No
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